6. Krishna

Program Name: Krishna.java Input File: krishna.dat

Krishna is intrigued by a song she heard on the radio during December.

Taking the words to the song literally:

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On the first day, 1 gift was given. (1)
On the second day, 3 gifts were given (1+2)
On the third day, 6 gifts were given. (1+2+3)
On the fourth day, 10 gifts were given. (1+2+3+4)
On the fifth day, 15 gifts were given. (1+2+3+4+5)
```

So, if Krishna wanted to know how many gifts were received from Day #3 to Day #5, the answer would be a total of 31 gifts (6+10+15).

Help Krishna write a program to allow her to input two integers A and B representing two different days in the song. The output should be the total number of gifts received from the Day #A to Day #B.

Input: Input will consist of an integer N, the number of test cases. The number of test cases will be in range [1,20]. Each subsequent line will contain two integers A and B representing two different days, both in the range [1,100] where $A \le B$.

Output: Each line of output will consist of one integer representing the number of gifts received from Day #A to Day #B.

Sample input:

5

1 3

1 5 1 12

4 6

10 20

Sample output:

10

35

364

46 1375